## UNITED STATES PATENT AND TRADEMARK OFFICE

# CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO.

: 7,213,479 B2

APPLICATION NO.: 10/785130

DATED

: May 8, 2007

INVENTOR(S)

: Mitsui

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 2:

Line 20, change "ups-and-downs" to -- up-and-down --.

Line 25, change "ups-and-downs" to -- up-and-down --.

Line 35, change "A vibration proof" to -- A vibration-proof--.

Line 55, change "constant  $K_1$  and  $K_2$  are" to --constants  $K_1$  and  $K_2$  are--.

Line 56, change "a negligibly small values" to --negligibly small values--.

#### Column 4:

Line 2, change "the second the vibratory" to --the second vibratory--.

#### Column 5:

Lines 23-24, change "vibration proof rubber" to --vibration-proof rubber--.

Lines 24-25, change "such as an hydraulic" to --such as a hydraulic--.

Line 30, change "Each of bearings" to -- Each of the bearings--.

Line 37, change "such as an hydraulic" to --such as a hydraulic--.

#### Column 6:

Line 39, change "one of shoulders" to -- one of the shoulders--.

Line 40, change "20 eccentric weight" to --eccentric weight--.

Line 41, change "anti-clockwise" to --anticlockwise--.

Line 51, change "one of fixed" to -- one of the fixed--.

#### Column 7:

Line 10, change "at opposing-ends across" to --at opposing ends across--.

Line 13, change "one of shoulders" to --one of the shoulders--.

Line 67, change "anti-clockwise" to --anticlockwise--.

#### Column 8:

Line 3, change "one of shoulders" to --one of the shoulders--.

Line 5, change "the center of the gravity" to -- the center of gravity--.

Line 10, change "anti-clockwise" to --anticlockwise--.

Line 13, change "the other of shoulders" to --the other of the shoulders--.

Line 21, change "anti-clockwise" to --anticlockwise--.

Line 54, change "rotate in anticlockwise" to --rotate anticlockwise--.

Line 61, change "rotate in anticlockwise" to --rotate anticlockwise--.

# UNITED STATES PATENT AND TRADEMARK OFFICE

# **CERTIFICATE OF CORRECTION**

Page 2 of 3

PATENT NO. : 7,213,479 B2

APPLICATION NO. : 10/785130 DATED : May 8, 2007

INVENTOR(S) : Mitsui

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 9:

Line 42, after "(m<sub>3</sub>r<sub>3</sub>+m<sub>4</sub>r<sub>4</sub>)" insert a period.

Line 44, change "lower-side" to --lower side--.

Line 48, change "FIG.3A through FIG. 3D illustrates" to --FIG.3A through FIG. 3D illustrate--.

Line 59, change "difference of them" to --difference between them--.

#### Column 10:

Line 9, change "rotate in clockwise" to --rotate clockwise--.

Line 12, change "lower-side" to --lower side--.

Line 28, change "rotate in anticlockwise" to --rotate anticlockwise--.

Line 31, change "lower-side" to --lower side--.

Line 64, change "because of following-reasons." to --because of the following reasons. --.

#### Column 11:

Line 15, change "the drum weights" to --the drum weight--.

Line 18, change "ups-and-downs directions" to -- up-and-down directions--.

Line 25, delete "∴mr(stan-".

Line 26, change "dard" to --∴ mr(standard--.

Line 57, change "(horizontal vibration))/" to --(horizontal vibration))/155--.

Line 58, delete "155"; change "vibration) = 0.31" to --vibration) = 0.31-.

#### Column 12:

Line 67, change "anti-clockwise" to --anticlockwise--.

#### Column 13:

Line 23, change "inside-circumference" to --inside circumference--.

Line 38, change "eccentric moment m3r3" to --eccentric moment m3r3--.

Line 58, change "numbers of the vibratory shaft" to --numbers of vibratory shafts--.

## Column 14:

Line 5, change "Although there have" to -- Although there has--.

### Column 15:

Line 13, change "fixed to first the" to --fixed to the first--.

Line 17, change "fixed to second the" to --fixed to the second--.

# UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.

: 7,213,479 B2

Page 3 of 3

**DATED** 

APPLICATION NO.: 10/785130 : May 8, 2007

INVENTOR(S)

: Mitsui

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

## Column 16:

Line 14, change "are asymmetrically located" to --are axisymmetrically located--.

Signed and Sealed this

Fourteenth Day of August, 2007

JON W. DUDAS Director of the United States Patent and Trademark Office